

Database of Steel and Alloy (Marochnik)

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Characteristics for grade 15KH18SYU (15X18CЮ).

Grade :	15KH18SYU (15X18CЮ)(X18CЮ ЭИ484)
Classification :	High alloy high-temperature steel
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Chemical composition in % for grade 15KH18SYU (15X18CЮ)

C	Si	Mn	S	P	Cr	Al
max 0.15	1 - 1.5	max 0.8	max 0.025	max 0.035	17 - 20	0.7 - 1.2

Mechanical properties under T=20°C for grade 15KH18SYU (15X18CЮ)

Assortment	Dimension	Direct.	σ_B	σ_T	δ_5	ψ	KCU	Heat treatment
-	mm	-	MPa	MPa	%	%	kJ / m ²	-
Bar, GOST 5949-75			490	295	20	50		Annealing

Equivalent steels for grade 15KH18SYU (15X18CЮ)

Warning! Indicated both exact and nearest equivalents.

USA	Germany	Japan	France	England	European	Italy	Spain	China	Bulgaria	Hungary	Poland	Romania	South Korea
-	DIN, WNr	JIS	AFNOR	BS	EN	UNI	UNE	GB	BDS	MSZ	PN	STAS	KS
430	1.4742 X10CrAl18 X10CrAlSi18	SUN21	Z10CAS18 Z12CAS18	430S15 X10CrAlSi18	1.4742 X10CrAlSi18	X8Cr17	F.3113 F.3153 X10CrAl18 X10CrAlSi18	1Cr19Al3	Ch18SJ	H13	H18JS	10AlCr180	STR21

Specification :

Mechanical properties :

σ_B	- Tensile strength , [MPa]
σ_T	- Yield stress , [MPa]
δ_5	- Specific elongation at fracture , [%]
ψ	- Reduction of area , [%]
KCU	- Impact strength , [kJ / m ²]
HB	- Brinell hardness , [MPa]

Database of steels and alloys (Marochnik) contains information about chemical composition and properties more then 2500 steels and alloys (stainless steel, alloy steel, carbone steel, structural steel, tool steel, cast iron, aluminum alloy, titanium alloy, copper alloy, nickel alloy, magnesium alloy and others).
Helpfull for specialists in grade technology, structural engineer, mechanical engineer, metallurgy and metal trader

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